

# **PARTICULATE FILTER REGENERATING DEVICE**

## **ABSTRACT OF THE DISCLOSURE**

A particulate filter regenerating device is configured to prevent the uneven distribution of particulate matter that results from interruption of the regeneration process and protect the particulate filter. The frequency with which regeneration is executed is increased by determining that it is time to regenerate the particulate filter at a time  $t_1$  when the exhaust gas temperature  $T_{exh}$  has reached or exceeded a prescribed temperature  $T_{exh1}$ . Additionally, particulate filter regenerating device determines that it is time to regenerate the particulate filter when the quantity of accumulated particulate matter reaches or exceeds a prescribed value  $PM_1$ . The particulate filter is regenerated by raising the temperature of the exhaust gas and combusting the accumulated particulate matter.